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ABSTRACT

This paper explores the potentialities for collaboration between educational researchers and school personnel. A set of principles is offered as a guide for attempts to reduce the research-to-practice gap. The implementation of these principles is discussed within the context of a Teacher Feedback workshop which was conducted as a development activity of an ongoing research project. Finally, a proposal for the structure and process of a collaboration effort is outlined. A 23-item bibliography and appendixes concerning the Teacher Feedback Workshop are included. (Author)



COLLABORATION BUTTHES: EDUCATIONAL RESEARCHERS

AID SCHOOL PERSON ILL:

Some Reflections and Proposals for Reducing

the Research-to-Practice Gap

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trator skepticism toward proposed research with increasing frequency. Those critics claim that professors of education are too far removed from the realities of the classroom to offer any helpful suggestions to practitioners. In addition, it is said that research tends to state that everyone already knows in a language that no one undersimately likesearchers counter by deploring teachers' lack of an analytic approach to their work and by pointing out their defensive-

Fortunately, the research-to-practice gap is not as wide as I have portrayed it. Within the collective bargaining process, teachers are beginning to demand not only increased salaries, but also a greater voice in changes in educational programs (Rapp, chanson, and Ensign, 1971). Teachers are expressing the idea that they possess an expertise which is valuable in the planning of reform. They also argue that they are responsible for providing learning experiences for students and hence, expect to be involved in the process of linking instructional aims to proposed changes.

Educational researchers are also going through a period of reorientation. Following an era of heavy federal funding for regional laboratories and research and development centers, some researchers are facing the fact that their endeavors have had little impact on the work of teachers in classrooms. The problem is not that the centers and laboratories failed to do significant research, but that the 'trickle-down' theory of educational reform

(Bailey, 1971) has Slopped.

An alternative research methodology which takes seriously these past and emerging experiences can be formulated. The basic premise of this methodology is that educational research should be conducted tointly by researchers and practitioners to produce findings that are both theoretically and practically relevant.

This paper explores the potentialities for collaboration between educational researchers and school personnel. A set of principles is offered as a guide for attempts to reduce the research-to-practice gap. The implementation of these principles is discussed within the context of a Teacher Feedback Morkshop which was conducted as a development activity of an on-going research project. Finally, a proposal for the structure and process of a collaboration effort is outlined.

THREE PRINCIPLES FOR REDUCING THE RESEARCH-TO-PRACTICE GAP

The following principles are offered as a preliminary attempt to specify conditions for reducing the research-to-practice gap.

Principle I: Communication of research results to teachers is a complex process which integrally involves the individual's feelings of competence.

Researchers have not dealt seriously with the complex problems of communication of research results to teachers who are participating in research projects. Findings of educational research especially those which relate to teaching - have implications for



the individual's self-estern and behavior change. Hince, it is not merely a dissemination problem.

Siever's (1972) discussion of the image of the educational practitioner as the rational man is especially relevant to Principle I. The practitioner is conceived as a person who bases decisions for change on the best information available concerning alternative courses of action. The focus of change is certain intellective processes. The only obstacle to change is importance. Thus, Sieber describes the Rational Man. He needs only to be informed about the best method for teaching reading to second graders, the best textbooks on American History, the best techniques for improving children's mental health, or the most up-to-date prepackaged course on mathematics, chemistry, or biology. If so informed, he will change his mind about his current practices, he will experience an intellectual awakening (p. 364).

The typical channel of influence is one-way communication through the printed word, lectures, and films. There are two limitations to this approach. First, teachers typically do not read the research literature. Lazarsfeld and Sieber (1964) found in a national survey of elementary school teachers that only one percent read the Journal of Educational Psychology, the Review of Educational Research, or the JEA-Research Bulletin. Home of the publications which the teachers read regularly were listed in America's Educational Press as information sources about



research. Seconi, toachers 40 not have the time to afft through the journals, nor have they been trained with sufficient technical competence to evaluate findings and their potential practical applications.

Jany findings of research may be packaged, field tested, and disseminated with accompanying explanatory literature. Mowever, findings which affect individuals' beliefs, esteem, and attachment to practical skills can be difficult to accept. Thus, there is a special need for persons who have the sensitivity and creativity to communicate arch findings in ways which will produce positive consequences for teachers and their students. This need has been recognized by the U.S. Office of Education, which has previously relied on print and electronic dissemination channels as a means of educational change. U.S.O.E. is now planning teams of educational extension agents who will provide linkages between researchers and practitioners.

Principle II. Direct teacher participation is essential for planning and carrying out changes in their own teaching.

Theory and research from group dynamics provide a rich base for developing strategies for the involvement of teachers in planning their own changes in teaching. Research on participation in accision making indicates that persons are more committed to and more likely to carry out decisions in which they have been involved (Cartwright, 1963, Lewin, 1947).



The rationale for participation in the research endeavor is been described by Mann and Likert (1352). They suggest that personal involvement decreases the barriers to the utilization of the data, while increasing the probability that the results will be understood and emotionally accepted. Involvement also yields motivation to apply the results to the individual's situation.

There is some evidence that teachers tend to accept and to regard as valuable those in-service programs which are planned with their involvement (Childress, 1969). Dutton and Harmond (1966) compared two methods of in-service training for mathematics teachers. The first method (iiI) used a college professor of mathematics to give weekly lectures on selected concepts for eight weeks. Teachers were expected to do readings and complete assignments. In an equivalent group of teachers (.III), district staff members, along with teachers, assessed individual weaknesses and designed individualized programs to help each teacher with his specific problems. At the end of eight w ..., teachers in Method II achieved greater gains in teacher attitude toward and knowledge of mathematical concepts than those in Lethod I. Although there are some minor methodological problems in this study, the findings indicate that in-service training which involves teachers in the assessment of their own needs, and plans for individualized training can have positive consequences for their teaching.

This principle operates most clearly in the concept of the British teacher center (Bailey, 1971). These centers are based



on the tenet that fundamental educational reform will come only through those who have the basic educational responsibility — the teachers. Furthermore, teachers will take reform seriously only when they have been responsible for defining their own educational problems and receiving help on their own terms. In England and Males, there are approximately 500 centers, over half of which are staffed with full-time leaders.

Principle III: Attention to individual differences in research on teaching increases the probability that results will have practical value.

Practitioners have repeatedly pointed to their personal styles of teaching or bag of tricks as an explanation for successful classroom teaching (McCauley, 1972 Marram, 1971).

Researchers in the organization of teaching have outlined reasons for the great variability among teachers in instructional activities (Bidwell, 1965; Lortie, 1969). There is no standard body of knowledge and skills which is transmitted in teacher training programs. Once teachers enter the classroom, there are limits on collegial interaction. Except for possibly the open-plan school or teaming, teachers rarely observe their peers at work (Meyer, Cohen, at, al., 1972).

However, researchers on teaching have tended to ignore individual variations in teacher behavior. In his review of teacher variability within and between special curriculum programs. Rosenshine (1970) notes that there are few existing studies



dealing with this problem. Furthermore, the generalizability of the results is limited by the small number of meachers involved in the studies and the disparity of the observational systems used.

The line of analysis of individual differences which is suggested by Sidman (1960) has promise for linking research and practical applications. Sidman (1960) postulates that subject variability is derived from differences in the functional relations between a behavior and its controlling conditions for each person. Thus, the shape of a curve based on group data may indicate that a specific behavior increases as some independent variable increases. However, examination of the individual data indicates that each subject reacts maximally at different values of the independent variable. In cases like this, application of group results to individual persons may be erroneous. Furthermore, when we are suggesting changes in individual behavior, group results can be simply misleading.

In communicating with teachers about their <u>own</u> behavior and its effect on students, the individual data analysis suggested by Sidman (1960) has potentially useful consequences. Teachers can use their results as a basis for confronting what they are doing, and how they might plan for changes in their behavior. They can make these decisions on relationships found for their own behavior, not on generalized relationships which may not apply to them.

In summary, three general principles need to be considered in reducing the research-to-practice gap. (1) communication of



research results to teachers is a complex process which integrally involves the individual's feelings of competence. (2) Direct teacher involvement is essential for planning and carrying out changes in their own teaching, (3) Attention to individual differences in research on teaching increases the probability that results will have practical value.

An attempt was made to implement these principles at a workshop for teachers participating in a research project of the Stanford Center for Research and Development in Teaching (SCRDT).

Several projects in the Teaching in Low-Encome Areas Program of the Stanford Center have begun to develop procedures for communicating research results to school personnel. The procedures which are described in this paper pertain to Project 3C - Student Engagement: Chassroom Settings. (See list of footnotes on page 16 of this paper.)

AN ATTE IPT TO REDUCE THE RESEARCH-TO-PRACTICE GAP

Background

The project originated in the concern for student engagement in learning in low-income area schools.² From the practical application perspective, student engagement is one of the crucial problems facing teachers. Without students' interest and involvement, learning cannot occur.³ From the perspective of research on teaching, teacher motivational techniques have not been the focus of much research attention (Maenr and Sjogen, 1971: Rosenshine and Furst, 1971).



We began by examining teacher strategies which are related to high levels of student attention, involvement, or engagement in classroom learning. Twenty-four teachers from nine schools in the Mid-Peninsula and San Jose, California area volunteered to participate in the research during the school year 1971-1972. The teachers and students were observed at five different times during the school year - September, October, November, February, and April-May. When the teachers were recruited for the study, we contracted with them to provide a workshop at the end of the observations which would report findings up to that point.

The Teacher Feedback Yorkshop

on lisy 6, 1972, the Teacher Feedback Workshop was conducted at Stanford University. Twenty-one out of the twenty-four sample teachers participated in the day-long weekshop. The morning session covered the sime and procedures of the project. Detailed descriptions of the observation instruments were also presented. A report of findings based on analysis of group data was presented to provide a context for understanding the individual data analysis which was given to teachers in the afternoon sessions. The morning discussions centered around issues which would be relevant to teachers regarding their own behavior:

1. How much of the time during classroom observations are atudents engaged?

How much of the time during classroom observations are students disengaged?

Note: In the individual feedback sessions, these questions



become translated: How much of the time during classroom observations are my students engaged? How much of
the time are they disengaged in my classroom?

- 2. What strategies do teachers use?
- 3. Which strategies are most frequently used?
 Which strategies do teachers use least?
- 4. How can student engagement and disengagement be related to specific teacher strategies?
- 5. That is the Engagement Lapact Score (EIS)?
- 6. Which specific teacher strategies appear to have the most impact on student engagement?
- 7. Which specific teacher strategies appear to have the least impact on student engagement?
- 3. How important are these group findings for your own teaching behavior?

Results were presented in non-technical language with a heavy reliance on graphics to illustrate specific points. The purpose of this mode of presentation was to facilitate teacher involvement with the information by making them realize that the data dealt with their own teaching situation.

As a result of the morning sessions, all of the teachers reported that they had received an adequate picture of the project and its goals. 4 Some teachers stated that the presentation of group data had provided them with the concepts and information with which to approach feedback about their own behavior.



In the afterneon sessions, all teachers received individualiked feedback from trained feedbackers. Precedures had been developed by the project staff to utilize videotapes as a mane for discussing individual data analysis based on classroom observations (See Appendix II). The three principles, which were discussed earlier in this paper, were applied to the planning and implementation of the individualised feedback sessions.

Tiret, commissation of receases receits to individual teachers involves the person's feelings of competence and has implications for behavior change. Hence, all feedbackers very dealing with a potentially ago-threatening situation. The videotapes were used to start the teacher to look at her/his behavior. deace, the first videotape segment was used for 'esemptic effect' in which the teacher viewed her/his teaching without comments on attraction. Nursing this period, feedbackers were instructed to be supportive and resonating, and to encourage the teacher to empress her/his observations of what was going on in the classroom. An attempt was unde to create a supportive climate in which the consequences of individual behavior sould be discussed.

Puring the individualised feedback sessions, the discussion centered excend the enalysis of individual teacher data. Teachers had been asked before easing to the vertakep what kinds of information they wented from the feedback sessions. The teachers' responses formed an additional basis for individualisation" of the feedback. Group enalysis was available for purposes of comparison



individual teacher. Questions covered for group and pages 9-10 of this paper) were applied to individual data e.g., what strategies do you use most often? What strategies do you use least? Which specific strategies appear to have the most impact on student engagement on students in your class? Which specific strategies appear to have the most impact en student engagement in your class? Unlike the least impact on student engagement in your class? Individual data analysis was especially relevant in this case, because preliminary enumination of individual versus group patterns indicated a wide range of vertability in the impact of specific teacher behaviors on student engagement. For this particular project, feedback to teachers based on group results, would have been errenesse and misleading.

Perthemore, the presentation of individual data analysis provided the teacher with an information base about her behavior and its enacequances from which to make decisions about change. By use of the videotope, the teacher's excetegies which had high and low engagement impact on students were identified. The teacher's attention was drawn to the students' reactions to her om behavior. In the last segment, the teacher, howelf, was asked to point out her excetagies and note their offers on the students' engagement.

Formation to teachers would have to be pressure. Here important,



the goal was to start teachers planning changes in their own behavior, based on a knowledge base derived from observation in their classrooms. Thus, the responsibility for determing the direction of change was placed decisively upon the tas her. The objective importiality of the feedbacker and of the data presentation helped teachers to approach the findings in a constructive names. Together with the feedbacker, the teacher employed different interpretations of the data and placed together a pattern satisfactory to her.

There is some evidence from teachers' responses to a questionmaire that the findings presented at the workshop will have
positive consequences for their teaching behavior. Sixteen out of
the coventeen teachers who asserted the questionnaire reported they
had learned senething new about their teaching. Twelve of the
teachers thought that they should change some of the waye they teach,
and eixteen said results and discussions as the workshop could really
help teachers change their teaching behavior. Sixteen of the
teachers thought that the results will be usuaful to classroon
teachers in general, and all replied that they believed educational
research can produce knowledge useful to teachers.

In susmery, the Teacher Feedback Verbalop was effective in reducing the research-to-practice credibility gap. This evidence gives the principles presented in this paper some validity. Informal teacher response to the workshop supported these conclusions. In their thank-you letters to the staff, teachers pointed to the



repecial, individual attention which they received. The opportunity to receive feedback as "a valuable aspect of the study", to the fact that "you didn't tell us what "e everyone else seems to), but gave us some basis for many our own decisions." Finally, one teacher wrote, "I know your project is designed to improve teaching, not just study it, so now I am working to apply what I learned Seturday. I thank you, and my pupils thank you!"

The Teacher Feedback Workshop was a <u>besinning</u> attempt by one project at the SCRDT to reduce the research-to-practice credibility gap. Nuch of what we have accomplished will be of potential une-fulness in development of feedback procedures for other research projects. Some auggestions for inpunsing our relationships with maked passental energy from our present activities. Proce will be discussed in the concluding section of this paper.



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sectional aspect of the collaborative process is
formalisation of relationships between researchers
onnel. The collaborative process should be organized



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r a Research Advisory Council in which joint decisionchange of ideas can accur. Contracts which state sibilities and obligations between the researchers aff can also serve to fernalize the collaborative and its reciprocal character.

research activities. In this connection, a frequent research activities. In this connection, a frequent research by administrances is "You come to us after find the problem. However, the talk about it gin." The Research assister, Council would be consciency, echool pursuant from all levels of the administrative runs, and commity people. Representificant roles camp the count staff recognises a reach to educational manuscript - the meet to be aware le veriebles and their interventions as they relate to problem under investigation. The cross-role representates that all perthappens process knowledge which is enalysed and incompanyees process knowledge which is

d, alternative removed excessive are considered, and of instrumentation and data analysis are questioned. 5 bias are especially wasted when researchers are working one who differ from sum to estate-cultural backgrounds. Tesas of enchange, when in instrumentation may be important issues which are not recognized by the rebe incorporated in the decima. Group and shared



decision-making processes are likely to strengthen commitment to the research efforts and to future utilization of the findings.

Finally, engagement in the collaborative process signifies a long-term counitment on the part of researchers to deal with the realities and problems of school systems. In the process, the researcher places himself in a position of vulnerability (Gculet, 1971) with the school personnel. In the process of exchange with school personnel, the researcher opens himself up to the questioning of his theories and assumptions, methodology, and interpretation of problems. This vulnerability is essential for the development of collaboration between educational researchers and school personnel.

These suggestions are offered as general and preliminary statements, for if we take this discussion seriously, patterns of collaboration will emerge once we, as researchers, start to bridge the research-to-practice gap. There is no more specific proposal then 'Let us begin."



LIST OF FOOTNOTES

Project 3C was under the direction of Robert D. Hess and Ruby Takanishi-Knowles with the collaboration of research assistants Ann Boule, Kalei Inn. Anne Norton, and Terry Taylor.

Technical support staff included Janet Weston, Administrative Assistant, Secretaries Joan Heff and Jean Ziebron, Charver and Data Processing Team - Marsha Alber, Beary Dietz, Mary Lee Thomson, and Lucy Williams. Susan Marwitz and Gerry Marcadente assisted during Spring: 1972.

The Project could not have been carried out without the callaboration of all these people, and others not mentioned here.

²A description of the first year of this research will be published by the Stanfami Center for Research and Boundopment in Teaching - Robert D. Hees and Ruby Takenishe-Knowles. <u>Teacher Strateries and Student Baracement inview-Insens Asso Schools</u>. Stanford, California: Research and Sevelopment Management No. (in press).

³Student engagement is assumed to be highly related to measures of student schimment. Several recent studies using benevior-based measures provide good support for this assumption (Cobb, 1972, Lahderne, 1963, Hayers, et. al., 1968).

Annegret Harnischtlager and Frederick Ross conducted an evaluation of the Teacher Feedback Workshop. Their complete



report is included in Appendix I.

5_{Th/o} backs, which discuss action research methodology with teachers, provide case studies of the collaborative process.

(Corey, 1953; Schumnky, 1953).



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APPENDIX I.

Report on Teacher Feedback Workshop



REPORT ON WORKSHOP OF

Project 3C: Student Engagement: Classroom Settings Teaching Students from Low-Income Areas

May 6, 1972

by

Annegret Harnischfeger and Frederick Ross

Stanford University
Stanford Center for Research and Development in Teaching



I. THE TASK OF THIS REPORT

When the research staff of 3C first contacted the teachers in order to invite them to participate in the ject, they emphasized their plan to give "feedback" to the teachers, that is so report the findings to the teachers.

The workshop on May 6, 1972 was set up to report preliminary findings to the teachers who participated in the project. But its function was not only one of dissemination: the staff of 3C was also interested in getting comments on their work which would improve future research.

The authors of this report, who were not directly involved in the 3C Project, were asked to evaluate the workshop. We would like to point out that this report is not an evaluation of the project or the planning of the workshop, but only of the workshop itself and the teacher's participation in the project.

We assume that the reader of this report is familiar with the 3C Project. We, therefore, give no project description.

II. THE RATIONALE FOR THE EVALUATION

One major goal of the 3C Project is to make research relevant to the teacher's daily work. As one consequence, the etaff expended much effort at dissemination of information about the project and its results.

The evaluation is mainly concerned with the following questions:

- Were the preliminary findings presented in a way that was understandable to teachers?
- 2. Could the findings have consequences in the daily work of the individual teacher?
- 3. Are the teachers' comments likely to improve future research of the kind presented?
- 4. Was the working relationship between the staff and the teachers supportive of future field research?

We prepared a questionnaire for the teachers which helped us in answering these questions. Besidee this, we talked with many teachers during the workshop and attended all large group meetings. The questionnaire was given to the teachers at the end of the "Feedback" sessions. All teachers still present at this time (17) answered the questionnaire.

III. ATTENDANCE

The workshop was attended by 21 out of a total of 24 teachers who participated in the project. These teachers were located at nine different schools. Two out of the nine principale attended the morning sessious.



IV. ORGANIZATION OF THE WORKSHOP

As can be seen from the schedule (see Appendix A), in the morning sorsions the project, ite instruments, and its preliminary group findings were presented while in the afternoon sessions individual findings were presented including an analysis of videotaped classroom observation. Group discussions were held in which teachers commented on the project and their individual teaching experiences.

One observation was that the workshop was very well organised. Time and room planning were excellent. This has to be mentioned because individual afternoon sessions which needed many rooms and changes of location really required thorough planning and a feeling of responsibility from all staff members.

V. PRESENTATION OF FINDINGS

During the morning sessions of the workshop the project, its instruments, and its preliminary findings were presented by numbers of the etaff. Special attention was given by the staff to the dissemination function of these sessions.

In our opinion, the presentations were given in a clear nontechnical language. The audience understood the main points and were thus able to comment on the project and its findings in an effective way. Several questions raised and comments given seemed to be relevant for consideration in future research of this kind. A little confusion was caused by the percentage definition of etrategies used which the teachers had to estimate during one session. Absolute numbers instead of percentages might have been easier to estimate. The teachers obviously enjoyed their participation in the sessions. The comments we got after the sessions showed their great interest and understanding.

Seven of the 17 teachers who answered the questionnaire pointed out (1.5) that they now understood the goals of the project differently then at the time they decided to participate, although this would not have changed their decision. Three teachers would have liked more detailed information before they decided to participate. Heet of the teachers (11) got all information needed to agree to participate. However, most of the teachers were not in favor of a workshop prior to the observations (1.6).

These who would have liked a workshop pointed out that they would have liked to know more about the specific goals of the observations in order to plan their teaching around them and in order to feel more familiar with the whole situation, especially in the first observation period (II.2).

The need for more information is also expressed in the teacher's preference for a workshop after the first observation period. About half of the teachers felt a need to discuss their experiences with other participating



The results of the questionnairs are given in Appendix B.

teachers. Many teachers told us during the workshop that they would have preferred a "feedback" session earlier.

All teachers who answered the questionnaire said that they got a rounded picture of the program and its specific goals (III.1). Most of them felt that this information would be of interest to other teachers who have not participated in the project (III.2), although their estimates of other teachers' ettendance in the morning sessions had only an average of 30 percent however ranging from "0" to "100" (III.4). This low attendance rate might be the reason that about half of the teachers suggested not to invite other teachers (III.3) to this kind of workshop.

The teachers were somewhat more critical about the presentation of the individual findings in the afternoon. We expected this, because the individual use of attategies and their relation to atudent's engagement was not always fevorable and it is somewhat more difficult to accept unfavorable individual results. Thus, although fourteen out of 17 teachers felt that the materials presented had good examples of their teaching behavior, one teacher felt the material was unrepresentative of her teaching atyle, one teacher found the material unclear, one too concentrated, and three teachers were claiming incompleteness (IV.3).

The authors did not attend the individual afternoon sessions. The nembers of the staff who presented the individual findings later reported that the teachers' reactions were very different depending more on the individual personality than on the findings, and that they needed a more in-depth understanding of the characteristics of each teacher before a really effective individual "feedback" session can be run. On the whole, fourteen out of 17 teachers said that most or all of the findings of the project were consistent with their personal knowledge and experiences.

For the future, the staff might consider a workshop for detailed information immediately after the first observation period. The method of informing individually before the observation period seemed to satisfy most of the teachers. The interest for more detailed information which some teachers expressed would have to be considered in the light of equal information for all teachers participating in the project in the future. For the presentation of the individual results even more personalized methods might be developed, in order to avoid dissatisfaction of those teachers whose results are less favorable.

VI. CONSEQUENCES OF PINDINGS FOR THE TRACHERS' DAILY WORK

The results of the questionnaire seem to indicate that the findings presented at the workshop will have definite consequences for most of the teachers participating in the workshop. Sixteen of the 17 said that they had learned semething new about their teaching (IV.4). Twelve of the 17 teachers think that they should change some of the ways they teach (IV.5), and sixteen of the 17 teachers felt that results and discussions like those of the workshop could really help teachers change their teaching behaviors (IV.6) but they pointed out that immediate "feedback" after each observation is preferable in order to gain insight into their classroom behaviors when it is still fresh in their memory.



The teachers' comments on the project in general further indicate that they saw the findings as having definite utility for the classroom teacher. Sixteen of the 17 teachers responding thought that the results of the project will be useful to classroom teachers in general (V.2), and all of the teachers indicated they believed educational research can produce knowledge helpful to teachers (V.4).

VII. TEACHERS' COMMENTS ON IMPROVEMENT ON THIS KIND OF RESEARCH IN THE FUTURE

Mearly all of the teachers seemed to have some constructive criticism about aspects of the project, especially in relation to those areas of the project dealing with teacher strategies. About a third of the teachers thought that all strategies chosen are highly important in teaching. Nearly a third was uncertain about this and another third felt that some important strategies are missing (III.5). Among strategies which the teachers considered to be important and which were not included in the project were the following: grouping of students in the claseroom, types of reinforcement, interrelations of different strategies, positive and negative aspects (III.6).

The teachers were less critical concerning the students' engagement instrument (III.7). Here we asked for typical ways teachers are aware of students' interest and engagement in the learning task. Nost often the teachers answered that they assess students' engagement by the types of questions they raise (III.8).

A special problem in the classroom observation was the videotaped sessions. Disruption in nearly all classes occurred because of the bulkiness and extensiveness of the equipment. If there is no solution to the problem of bulky equipment then, the teacher proposed, a more frequent practice is necessary before the observation would start, in order to observe "usual" classroom buhavior.

The members of the staff stated they learned something more about the strategies, especially the necessity to disentangle the positive and negative aspect of strategies. We were told that the staff is looking for a solution to the videotape problem.

VIII. WORKING RELATIONSHIP BETWEEN THE TEACHERS AND THE STAFF

The teachers were asked several questions which helped us to assess their experiences and opinions about the working relationship with the 3C staff. One main indicator that shows the good relationship is the teachers' workshop attendance. Out of the total of twenty-four teacher: who participals (mr. 9) attended the workshop.

Looking back at the period of recruitment of the teachers, from the seventeen teachers who answered the questionnaire, twelve felt invited and five felt urged to participate (I.1). Those teachers who felt urged pointed out that this was not on the part of the research staff, but on the school side. One teacher felt "obligated to return a favor from a fallow teacher" whom she had asked to participate in another program. The positive comments ranged from



why shouldn't I be observed on to be: and feeling thrilled at the opportunity to participate.

We asked the teachers to estimate ject if we had invited all teachers in the estimates ranged from 10 to 100 percent of about 60 percent. This figure does not account that the teachers got some mone main person for the research staff was convinced that the project was of important some of the teachers was obviously due Fourteen of the 17 teachers discussed to principal, seven of these only with him, any advice. None of the teachers who were

project.

-d to see profits on both sides ticipate. No teacher felt presend

e of participation in the procols (1.2). The teachers'
cipation with an average of
be too high if we take into
heir participation. Surely, the
comply the principal who had to be
teaching. The participation of
"urging" by the principal.

cion of participation with their
two teachers did not look for
and refused to participate in the

The question if the teachers would now observers coming into their classrooms unannounced gave us information the relationship between the teachers and the observers. Eleven out of / teachers would not mind. This is an unexpected high number and indicates were good relationships between the teachers and the observers. This finding was confirmed during the workshop, where we observed a very friendly relationships between teachers and observers. It is interesting that except one all teachers who did mind unannounced observers were feeling urged to participate to the project. The teachers felt free to comment and ask questions. The steachers is the project. This is probably due to mainly two reasons:

- 1. Differently from the normany asses no material was presented. They were pure discussion asses. 72.
- 2. The teachers seemed to be reduction to participate because they perceived the discussion leader to be such an "empert" on the topic under discussion. This was again different from the morning sessions, where except for the introduction all presentations were given by staff members.

For the future the staff might consider to have a non-professor as a group leader. We think that some materials like specific instruments or findings would result in a freer discussion.

At the end of the workshop day very many teachers expressed that the day was unexpectedly interesting and pleasant. Sixteen of the seventeen teachers who were still present indicated their import to participate in this kind of project in the future.



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Stanford Center for and Nevelons on the Teaching

Printect 30 ftur rement: Classroom Settings Tracing for Low-Income Areas

TO THE TOUR PROPERTY OF THE PARTY OF THE PAR

Sammin av (1972

resider 'emer' Union noom 27-

-30 - 00 Coffee an manners

100 - 9:15 Welcome & General Prientation - Pobert " Wess

2.15 - 9.36 Project "macristic and Pationale - Puby Enouges

> 30 - 10:30 Explanate w (* wrvation Instruments sed in

Project Statemant - Terry D. Taylor Project Te. New Instrument - Anne Vorton

or no 10.45 Coffee meals

7 45 12 00 Presentation of General Findings Pased on all Teachers

Teacher Smartes Associated with Student Engagement & Classrooms - Yarv Lee Thomson

12:00 - 1:45 Lunch Trestimer "emorial Union, Room 275

1 45 4 60 Individualize radrack ressions

Videotame Viewir and Peedback - Cubberley,

Stanfer thool of Iducation

Green I - Cu - Fall. 1:45-2:45

Secretar "emortal Union "em 274, 3 00- 20

Group TI - Transition "Prorial Union own 1h 1 45-2 45

4 00 - 5:00 Social Year 144 Senorial Union, Small wasper 144 222

the morning session will be or becomed.

war explainting see name ...



Puplanation of Division of June I and II

Teachers will be divided into General 1.20 oup II for the afternoon session. Group I will receive individual feedbe at Cubberley Hall from 1:45 - 2:45 P.*!. During this time, Comp will remain at Tresidder to discuss the project with Dr. Hess and other colours of the scaff and to give feedback to them about the project.

Group II will receive individual feedbar ryom 3:00 - 4:00 m.M. at Cubberley Hall. During this time Group I walk return to Emmideer for discussions with Dr. Hess and the staff.

You have been assigned to Group

The staff member who will give you indowned feedback in



Stanford Center for Research and Development in Teaching

Project 3C: Student Engagement: Classroom Settings Teaching Students from Low-Income Areas

Workshop May 6, 1972

Teachers' Experiences with and Opinions on the Project

As we pointed out when the research staff first contacted you, one major goal of this project is to make research relevant to the teacher's daily work.

Today's workshop has four central objectives:

- --- We want to report to you the preliminary findings.
- We would like to know if your experiences with this project will have an impact on your daily work.
- --- We would like to know how you evaluate your participation in the project and get comments on its improvement.
- We would like to have your comments on the working relationship between the staff and you so that we may evaluate our own efforts as well as make future research more useful to teachers.

Please help us by responding to the following questions so that we may improve our work and increase the direct relevance of educational research to the educational process.



I.	THE PRE-COSERVAL BOY PRASE
1.1	What were your factions when you were amond to participate in the project?
	I felt proceed to participate
	I felt unumi to participate
	I felt immitted to participate
	I felt (Please specify):
1.2	In your opinion, if every teacher in your columns would agree?
	percent
1.3	Before you agreed to participate did you discuss this matter with
	765 100
	your colleagues
	your principal
	persons in the district administration
	yeur students
	ether (Please specify):
1.4	Looking back on the contract you and the research staff agreed upon, do you thank it was
	yes no
	appropriate
	wholsted
	Incomplete
	ather (Please specify):
1.5	Looking at the purgent new, did you get crough infimmation about it, before you desired to participate?
	I weeks time liked more detailed influenties,
	specifically ex
	T pointment the cooks of the contest differently
	I understand the grade of the project differently now that at the time I doubled to pastilohete.
	I get all information module to make the decision to completents before I seemed.
	LU HERNEL GERMEN DEKEMBÎ A AMERÎNE.



1.6	Would you have producted a workshop for detailed information on the project for all teachers postic leating in the project before the observation started?
	30
1.7	Did you inferm the students' parents makere the first enterestion?
	no no
1.7.1	If you in the providence question (1.7): down did you inform the
	note to gaments
	asked students to report at bean
	mosting of possets
	colony (Finance specify):
1.8	How many pushes different to the cleanurs observation?
n.	
u.1	Hould you have appreciated a weekshap constinue after the first observation round, in order to talk about your especiences and company than sold these of other manhage!
II.2	How did you that don't the first character observation?
	I believed differently then usual in the finer
	- The distributed differently then usual in same than seconds.
R.2.1	If you for the class' behavior:
	By readons were loss tensions to deale ways



11.3	In the following observation periods - exclusing the videotaped sessions -
	The The
	I felt that my teaching behavior was as usual.
	I felt that my class behaved = usual.
11.4	Did wou feel discupted in your teaching by the videotaping?
	yes, very such
•	yes, a little
	nc
11.4.1	If you in the previous question (II.4): Cambi you point out the main reasons for your teaching being dismupted?
11.5	Did you feel that your students were discupted by the
	videotaping.
	yes, very much
	yes, a little
	**
11.6	No you have pumposales four improving the videocape sessions?
n.7	In general, was did your students feel about the observations?
	On when whenhe, they did not seen to be affected.
	They execute to be very interested in being observed Their execute inflated that they fall proof of boing selected for participation.
11.6	the did year statems like the videotoping mentions? (Please, chance one symme.)
	They diff not some to be effected.
	They second to be very introsected in the videotoping.
	They did not like the videntages countries.
11.9	Mould you wind observers coming finte your minuteson ununnounced?
	yes
	BO

III.	GENERAL ORIENTATION AND PRESENTATION OF GENERAL FINDINGS IN THE WORKSHOP (Morning Session)
III.1	Did the morning session today provide you with information that gave you a rounded picture of the program and the specific goals of this project?
	no
	partly
	yes
III.1.1	If no or partly in previous question (III.1): Were the presentations
	incomplete
	too technical
	too concentratea
	unclear?
III.2	Do you think the information presented in the marning would be of interest to other teachers who have not participated in the project?
	no
	probably not
	I am not certain
	probably yes
	definitely yes
III.3	Would you suggest that we invite all teachers from your school for a general presentation of this kind?
	no
	yes
111.4	In your opinion, what personness of your collemness white have attended the serming session, if we would have instead all teachers of your school?
	persons
H1.5	Do you think that the teachers' strangies chases for immedi- gation in the project are the most important ones for immediate students in classroom learning?
	I think some important securities are wheater.
	Hany strategies seem to me to be irrelement.
	Some strategies seem to be unimportant in teaching.
	I think that all stranges chases one haply important in teaching.
	I am uncertain about then

111.6	Can you think of important strategies which we have omitted?
	1.
	2.
	3.
111.7	Do you think that the student engagement instrument measures the most important behaviors characteristic of student engage- ment in a learning task?
	no
	probably not
	I am not certain
	probably yes
	definitely yes
111.8	Could you name some typical ways teachers are aware of students' interest and engagement in the learning task? 1.
	2.
	3.
	4.
IV.	PRESENTATION OF VIDEOTAPED SESSIONS AND INDIVIDUAL FINDINGS IN THE WORKSHOP (Afternoon Session)
IV.1	Did you have a chance to ask all of the questions you wanted?
	80
IV.2	
14.2	Were the susuant to your questions complete enough?
	 100
	only some
	766
IV.3	Was the material presented to you in the individual afternoon session today
	yes no
	incomplete
	too concentrated
	unclear?
	not representative of your teaching style
	good example(s) of your teaching behavior?
	denne with a complete to the form and an analysis



IV.4	Did you learn something new about your own teaching in the afternoon session?
	no
	I am not sure about this
	yes, a little
	yes. very much
IV.5	As a result of the workshop, do you think that you should change some of the ways in which you teach your classes?
	no
	probably not
	I am uncertain
	probably yes
	definitely yes
IV.6	In your opinion, could classroom observation of the kind presented and individual discussions like those in today's afternoon session help teachers change their teaching style?
	no
	probably not
	I am uncertain
	probably yes
	definitely yes
v.	PROJECT IN GENERAL
V.1	Do you think that more communication among participating teachers would have resulted in more commitment to the project?
	no no
	probably not
	I am uncertain
	probably yes
	yes, definitely
V.2	Do you think that this project can produce knowledge which will be useful to teachers in the classroom?
	no
	probably not
	I am uncertain
	probably yes
	definitely yes



V.3	knowledge and experiences?
	no
	some of them
	most of them
	ye s
	I am uncertain
V.4	Do you think that educational research can produce knowledge which is useful to teaching and learning in the classroom?
	no
	I am uncertain
	yes
v.5	Would you like to participate further in this kind of project in a more intensive working relationship with the staff in the future?
	no
	yes
	If yes, please write your name and address on the attached paper. Use separate envelope because of anonymity.

Thank you for your support of our work.



APPENDIX 11.

Outdelines for the Utilization of Videotare
in Feedback to Teachers



Teacher Feedback Workshop

Cuidelines for the Utilisation of Videotape in Feedback to Teachers

Ruby Takanishi Knowles Betty Diets

Project 3C: Student Engagement: Classroom Settings Teaching Students from Low-Income Areas

Stanford Center for Research and Development in Teaching Stanford University Noy 1, 1972



Teacher Feedback Workshop

Guidelines for the Utilization of Videotape in Peedback to Teachers

- I. Preparation for Providing Videotape Feedback
 - A. Videotane Segments
 - 1. There will be approximately 13 minutes of teacher videotage segments available for viewing.
 - a. 3 min'. Cosmetic Effects
 - b. 5 min. 1st Videotape Segment
 - c. 5 min. 2nd Videotape Segment

Note: The segment for "Cosmetic Effect" will immediately precede the first five-minute tape.

- 2. Become well acquainted with <u>all</u> of your teacher's videotape segments. Be prenared to identify most of her strategies. Know which strategies are exhibited in the tape aegment; know where ones are <u>not</u>, (particularly if they are this teacher's most or least engaging strategies).
- B. Check the date (day, time) of the videotape, and subject matter being taught.
- C. Become throughly acquainted with available data and analysis for your teacher. Talk to the observers who have seen this teacher in class. They may have some comments which can be helpful in approaching the teacher.



II. The Videotspe Feedback Session

- A. Short Orientation to Session
 - 1. Inform the teacher what you have planned for the half hour videotape feedback session. Stress that this is an opportunity to look at at her videotape, and that non-videotape-related questions can be discussed afterwards. (If you are in a group which receives individual non-videotape feedback first, this point may not apply.)
 - Tell teacher how the videotape segments were selected (some common problems which were avoided: technical difficulties, teacher not on film, students blocking camera, etc.)
 - 3. Keep your orientation brief.
 - 4. Start viewing the tape as soon as nossible.
 - B. Commetic Effect Segment
 - This segment is used for the teacher to acclimate herself to being on videotape.
 - a. Ask teacher if she's ever been videotaped before.
 Try to reassure her if needed.
 - b. Give teacher an opportunity to verbalize her feelings about viewing herself.
 - c. Don't comment on strategies during this segment unless the teacher asks you to do so, i.e., direct most of your comments toward responding to her comments and feelings. Again, try to re-



look fatter on tames, as well as pale without makeup, etc.)

C. First 5-Minute Segment

- Briefly refresh teacher on definitions of strategies
 upon which you have decided to focus. Have her individual
 profile available for ar to see.
 - a. Define the strategies which she uses most often.
 - b. Define those which are most engaging for her.
 - c. Define those which are least engaging for her.
- Ro-start tape and comment on strategies, pointing them out as they're observed.
 - a. Point out positive strategies first .
 - b. Pinpoint tape segments where there is a mix of negative and positive strategies.
 - c. Pick out one strategy that has the highest level of engagement for this teacher. (If needed, stup the tape and show that part again.)
 - d. Draw teacher's attention to the <u>reactions</u> of the students around her, especially in response to her behavior.
 - e. Be sure to conclude tape segment by pointing out positive strategies for her.
 - f. Ask the teacher if she would like to review any part of the segment.



- 3. Stop tape to discuss what teacher has seen.
 - a. Review her strategies and their impact upon the studenta.
 - b. Ask the teacher for any emments or questions.
 - c. Request that she try to pasket out her strategies during next segment of team.
- 4. Start tape of second segment.
 - a. Have the teacher noise and serategies with as little assistance as possible.
 - Again, have her note remains of students around her.
 - c. Reinferce the teacher (ass., med, "Yes!") when she identifies the appropriate strategy.
- 5. Conclude the session Chause
 - a. After the second 5-minute segment, ask the teacher if she would like to re-view any part of the segment.
 - b. Give her the opportunity to comment or ask questions.
 - c. <u>Conclude</u> or <u>Summerise</u> the session by noting her strategies you both have seen, and their impact on the students.
 - Inform her that she can come back at a later date to view her tape more intensively



. . . .

- e. If there is time, set her to express her feelings about the videotape feedback session.
- f. Be prepared to leave the video room promptly so that the next people can start.

Note: Feedback to Betty and/or Ruby recarding the adequacy of these ruidelines will be velcomed.

